

CLAIMS

I claim:

1. An amusement ride with cable-launched carrier, which comprises:
one or more towers with at least one of said towers having a flexible upper
portion;
a cable suspended from each tower, said cable having a first end and a second
end;
a carrier for one or more participants attached to the second end of said cable; and
a means for propelling said carrier, said means for propelling being attached to
said cable other than at the second end of said cable.

2. The amusement ride with cable-launched carrier as recited in claim 1, further
comprising:
a controllably rotatable seat attached to said carrier.

3. The amusement ride with cable-launched carrier as recited in claim 2, further
comprising:
a harness attached to a locking apparatus connected to said carrier.

4. The amusement ride with cable-launched carrier as recited in claim 3, further
comprising:
a device for maintaining tension in said cable attached to said cable.

5. The amusement ride with cable-launched carrier as recited in claim 2, further
comprising:
a device for maintaining tension in said cable attached to said cable.

6. The amusement ride with cable-launched carrier as recited in claim 1, further
comprising:
a harness attached to a locking apparatus connected to said carrier.

7. The amusement ride with cable-launched carrier as recited in claim 6, further
comprising:
a device for maintaining tension in said cable attached to said cable.

- 1 8. The amusement ride with cable-launched carrier as recited in claim 1, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 9. The amusement ride with cable-launched carrier as recited in claim 1, wherein:
2 the means for propelling said carrier is a high-speed winch.
- 1 10. The amusement ride with cable-launched carrier as recited in claim 9, further
2 comprising:
3 a controllably rotatable seat attached to said carrier.
- 1 11. The amusement ride with cable-launched carrier as recited in claim 10, further
2 comprising:
3 a harness attached to a locking apparatus connected to said carrier.
- 1 12. The amusement ride with cable-launched carrier as recited in claim 11, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 13. The amusement ride with cable-launched carrier as recited in claim 10, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 14. The amusement ride with cable-launched carrier as recited in claim 9, further
2 comprising:
3 a harness attached to a locking apparatus connected to said carrier.
- 1 15. The amusement ride with cable-launched carrier as recited in claim 14, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 16. The amusement ride with cable-launched carrier as recited in claim 9, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1

- 1 17. The amusement ride with cable-launched carrier as recited in claim 1, wherein:
2 the means for propelling said carrier comprises:
3 a fluid-powered cylinder, which comprises:
4 a cylinder having an aperture in a first end and an aperture in a
5 second end of said cylinder and also having a side and an interior;
6 a piston slidably mounted within said cylinder;
7 a continuous cable, said continuous cable passing through the
8 aperture in the first end of the cylinder and the aperture in the second end
9 of the cylinder and said continuous cable being attached to said piston; and
10 a valve for injecting the fluid to propel the piston, said valve being
11 near the first end of said cylinder.
- 1 18. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 a controllably rotatable seat attached to said carrier.
- 1 19. The amusement ride with cable-launched carrier as recited in claim 18, further
2 comprising:
3 a harness attached to a locking apparatus connected to said carrier.
- 1 20. The amusement ride with cable-launched carrier as recited in claim 19, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 21. The amusement ride with cable-launched carrier as recited in claim 20, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 22. The amusement ride with cable-launched carrier as recited in claim 21, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 23. The amusement ride with cable-launched carrier as recited in claim 20, further
2 comprising:
3 an aperture in the side of said cylinder.

- 1 24. The amusement ride with cable-launched carrier as recited in claim 19, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 25. The amusement ride with cable-launched carrier as recited in claim 24, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 26. The amusement ride with cable-launched carrier as recited in claim 19, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 27. The amusement ride with cable-launched carrier as recited in claim 18, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 28. The amusement ride with cable-launched carrier as recited in claim 27, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 29. The amusement ride with cable-launched carrier as recited in claim 28, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 30. The amusement ride with cable-launched carrier as recited in claim 27, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 31. The amusement ride with cable-launched carrier as recited in claim 18, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 32. The amusement ride with cable-launched carrier as recited in claim 31, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 33. The amusement ride with cable-launched carrier as recited in claim 18, further
2 comprising:
3 an aperture in the side of said cylinder.

- 1 34. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 a harness attached to a locking apparatus connected to said carrier.
- 1 35. The amusement ride with cable-launched carrier as recited in claim 34, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 36. The amusement ride with cable-launched carrier as recited in claim 35, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 37. The amusement ride with cable-launched carrier as recited in claim 36, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 38. The amusement ride with cable-launched carrier as recited in claim 35, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 39. The amusement ride with cable-launched carrier as recited in claim 34, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 40. The amusement ride with cable-launched carrier as recited in claim 39, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 41. The amusement ride with cable-launched carrier as recited in claim 34, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 42. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 43. The amusement ride with cable-launched carrier as recited in claim 42, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.

1 45. The amusement ride with cable-launched carrier as recited in claim 42, further
2 comprising:
3 an aperture in the side of said cylinder.

1 46. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.

1 47. The amusement ride with cable-launched carrier as recited in claim 46, further
2 comprising:
3 an aperture in the side of said cylinder.

1 48. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 an aperture in the side of said cylinder.

1 49. The amusement ride with cable-launched carrier as recited in claim 17, wherein:
2 the first end of said cable is connected to said continuous cable.

1 50. The amusement ride with cable-launched carrier as recited in claim 17, further
2 comprising:
3 a slide through which said cable moves substantially freely;
4 a transfer cable having a first end connected to said continuous cable and a second
5 end connected to said slide; and wherein:

6 the first end of said cable is attached to a structure which will hold the first end of
7 said cable substantially stationary.

1 51. The amusement ride with cable-launched carrier as recited in claim 1, wherein:
2 the means for propelling said carrier comprises:

3 a fluid-powered cylinder, which comprises:

4 a cylinder having an aperture in a first end and also having a side
5 and an interior;

- 3 an aperture in the side of said cylinder.
- 1 61. The amusement ride with cable-launched carrier as recited in claim 52, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 62. The amusement ride with cable-launched carrier as recited in claim 61, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 63. The amusement ride with cable-launched carrier as recited in claim 62, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 64. The amusement ride with cable-launched carrier as recited in claim 61, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 65. The amusement ride with cable-launched carrier as recited in claim 52, further
2 comprising:
3 a descent valve communicating with the interior of said cylinder.
- 1 66. The amusement ride with cable-launched carrier as recited in claim 65, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 67. The amusement ride with cable-launched carrier as recited in claim 52, further
2 comprising:
3 an aperture in the side of said cylinder.
- 1 68. The amusement ride with cable-launched carrier as recited in claim 51, further
2 comprising:
3 a harness attached to a locking apparatus connected to said carrier.
- 1 69. The amusement ride with cable-launched carrier as recited in claim 68, further
2 comprising:
3 a device for maintaining tension in said cable attached to said cable.
- 1 70. The amusement ride with cable-launched carrier as recited in claim 69, further
2 comprising:

3 a descent valve communicating with the interior of said cylinder.

1 81. The amusement ride with cable-launched carrier as recited in claim 80, further
2 comprising:

3 an aperture in the side of said cylinder.

1 82. The amusement ride with cable-launched carrier as recited in claim 51, further
2 comprising:

3 an aperture in the side of said cylinder.

1 83. The amusement ride with cable-launched carrier as recited in claim 51, wherein:
2 the first end of said cable is connected to said piston after the first end of said
3 cable has passed through the aperture in the first end of the cylinder.

1 84. The amusement ride with cable-launched carrier as recited in claim 51, further
2 comprising:

3 a slide through which said cable moves substantially freely;

4 a transfer cable having a first end connected to said piston and a second end
5 connected to said slide; and wherein:

6 the first end of said cable is attached to a structure which will hold the first end of
7 said cable substantially stationary.

1 85. An amusement ride with cable-launched carrier, which comprises:
2 three towers with at least one of said towers having a flexible upper portion;
3 a cable suspended from each tower, each of said cables having a first end and a
4 second end;

5 a carrier for one or more participants attached to the second ends of said cables;

6 a fluid-powered cylinder, comprising:

7 a cylinder having an aperture in a first end and also having a side
8 and an interior;

9 a piston slidably mounted within said cylinder and available for
10 connection to a cable; and

11 a valve for injecting the fluid to propel the piston, said valve being near
12 the first end of said cylinder, wherein said cylinder is oriented with the valve
13 downward;

- 14 a slide through which said cable moves substantially freely;
- 15 a transfer cable having a first end connected to said piston and a second end
- 16 connected to said slide;
- 17 a pulley around which the transfer cable bends between said cylinder and said
- 18 slide so that said transfer cable travels upward before connecting to said slide;
- 19 another pulley around which said cable passes between said slide and the first
- 20 end of said cable;
- 21 a controllably rotatable seat attached to said carrier;
- 22 a harness attached to a locking apparatus connected to said carrier;
- 23 a pressurizable cylinder connected to an object which is so heavy that movement
- 24 of the carrier will not appreciably move the object, said pressurizable cylinder having a
- 25 piston slidably mounted within the cylinder and attached to the first end of said cable,
- 26 said pressurizable cylinder also having an aperture for connection to a source of
- 27 compressed fluid near an end of said cylinder, and said pressurizable cylinder having an
- 28 aperture in that end of the pressurizable cylinder to allow said cable to pass through the
- 29 end of the pressurizable cylinder;
- 30 a descent valve communicating with the interior of said cylinder;
- 31 an aperture in the side of said cylinder; and wherein:
- 32 the first end of said cable is attached to a structure which will hold the first
- 33 end of said cable substantially stationary.
- 34